MB280 / MB290

MAINTENANCE GUIDE

OKI

MAINTENANCE GUIDE

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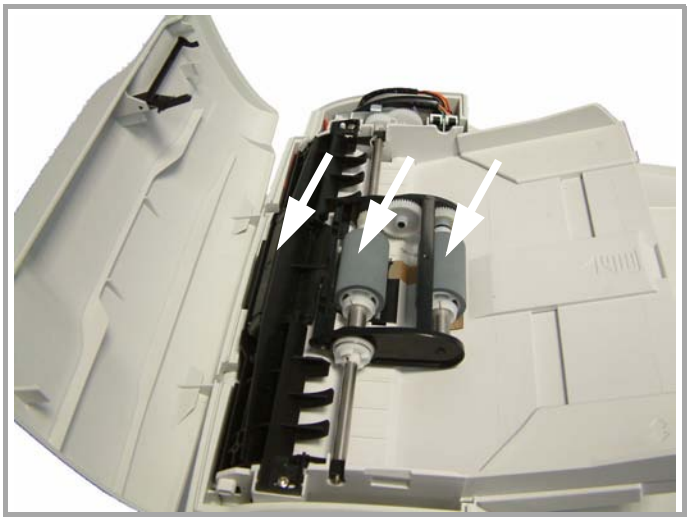
1. SCANNER AND COMMUNICATION

1.1 PREVENTIVE MAINTENANCE

To keep the terminal in good working condition, the following operations should be carried out regularly:

- Cleaning the paper transport rollers of the ADF scanner.
- Cleaning the paper separator.
- Cleaning the CIS window of the flatbed scanner.
- Cleaning the front panel keys and the printer covers.
- Printer maintenance (refer to chapter **Laser printer**, page 43).
- Cleaning the printer with a soft cloth, **never use abrasives or detergents**.

1.1.1 PAPER TRANSPORT ROLLERS



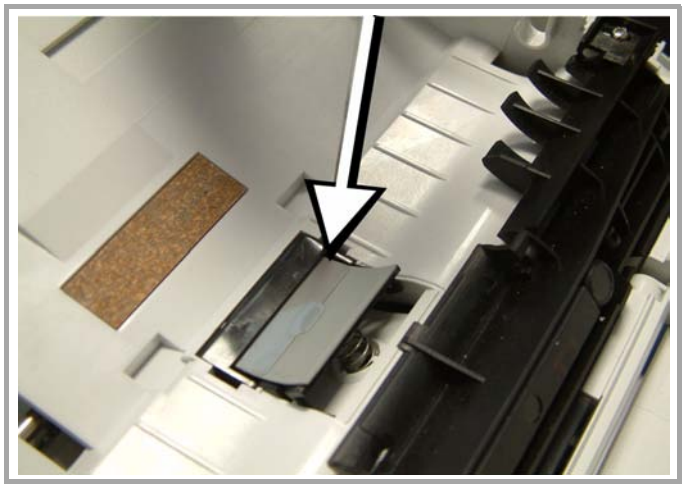
1 - Set the On/Off switch to Off (position 0).

2 - Open the ADF scanner cover.

3 - Clean the rollers of the document feeder and feed shafts, and also the two idler rollers located on the mobile part of the scanner, with a lint-free cloth moistened in isopropyl alcohol. To clean them, rotate them in the same direction as during paper transport.

Recommended interval: from 2 to 6 months, depending on utilization.

1.1.2 PAPER SEPARATOR MODULE



1 - Set the On/Off switch to Off (position 0).

2 - Open the ADF scanner cover.

3 - Disassemble the ADF feeder (see Worksheet D4, page 16).

4 - Wipe the elements of the paper separator module with a lint-free cloth soaked with isopropyl alcohol.

Recommended interval: from 2 to 6 months, depending on utilization.

1.1.3 CIS AND FLATBED WINDOW

1 - Set the On/Off switch to Off (position 0).

2 - Open the flatbed scanner cover.

3 - Clean the CIS window with a lint-free cloth moistened with isopropyl alcohol or use antistatic paper used for cleaning optic glass.

Recommended interval: depending on utilization; it is advisable to make a local copy to check if the window is clean.

1.1.4 FRONT PANEL KEYS AND COVERS

1.1.4.1 Cleaning the front panel keys

1 - Set the On/off switch to Off (position O).

2 - Clean the top of the front panel and the keys with a lint-free cloth moistened with isopropyl alcohol or a spray-on cleaning product.

3 - Leave the product on for a few seconds before wiping it off.

Recommended interval: to be defined depending on utilization.

1.1.4.2 Cleaning the covers

It is advisable to clean all the covers during a maintenance visit.

1 - Set the On/Off switch to Off (position O).

2 - Clean the external areas of the covers with a lint-free cloth moistened with isopropyl alcohol or a spray-on cleaning product.

3 - Leave the product on for a few seconds before wiping it off.

1.2 SCANNING AND COMMUNICATION ERROR CODES

1.2.1 COMMUNICATION ERROR CODES

The communication error codes appear in the logs (printed using key sequence ▼ **5 4**) and in the transmission reports.

1.2.2 GENERAL CODES

The following table presents and details for each error code displayed by the terminal its cause and when required the corrective action to perform.

Code	Error	Cause	Action
01	**Engaged or no fax tone**	This code appears after 6 failed attempts.	Restart the transmission at a later time.
03	**Stopped by operator**	Communication stopped by the operator by pressing the ⊘ key.	
04	**Programmed number invalid**	Invalid programmed single-key or quick-dial number (Example : a delayed transmission has been programmed with a single key and this key has been deleted).	Check the validity of the programmed number and/or the single-key associated to the programmed number.
05	**Scanning fault**	An incident has occurred at the location of the document to be transmitted (Example: the sheet is jammed).	Check the ADF module.
06	**Printer not available**	An incident has occurred on the printer (Example: out of paper, paper jam or cover open). In the case of a reception, this incident code only appears if the **RECEPTION WITHOUT PAPER** parameter is set to **WITHOUT PAPER**.	Check the printer.
07	**Disconnect**	The communication has been cut (bad connection).	Check the called number.
08	**Quality**	The document that you have transmitted has not been received correctly.	Contact your correspondent to check whether it is necessary to retransmit the document: the interference may have occurred in an unimportant area of the document.
0A	**No document to recover**	You have attempted to recover a document from a correspondent, but the latter has not prepared (stored) the document or the password that was entered is wrong.	Contact your correspondent to check whether the document to recover has been prepared or to check the validity of the password.
0B	**Wrong number of pages**	There is a difference between the number of pages indicated when the document was prepared for transmission and the number of pages actually transmitted.	Check the number of pages of the document.

Code	Error	Cause	Action
0C	**Received document faulty.**	The document is too long to be received in its entirety.	Ask the correspondent to check/reduce the length of his document.
0D	**Document transmission fault**	Document reception error.	Ask the correspondent to retransmit his document.
13	**Memory full**	The terminal memory is full (there are too many documents that have been received but not yet printed, or waiting to be transmitted).	Print the received documents. Delete or transmit in immediate mode the documents waiting to be transmitted.
14	**Memory full**	Received document memory saturated.	Print the received documents.
15	**Mailbox number x unknown**	Failure to deposit a document in your correspondent mailbox (the mailbox with this number does not exist with this correspondent).	Check the mailbox number of your correspondent.
16	**List number x not retransmitted**	Failure to retransmit a document via a remote fax (the requested list of recipients is not programmed on the remote fax).	Check that the list of recipients is programmed on the remote fax.
17	**Mailbox number x unknown**	Failure to recover a document in your correspondent mailbox (the mailbox with this number does not exist with this correspondent).	Check the mailbox number of your correspondent.
18	**Retransmission impossible**	Failure to retransmit a document via a remote fax (the remote fax does have a retransmit function).	
19	**Stopped by correspondent**	Communication stopped by your correspondent (Example: a fax attempts to recover a document from your fax, while there is no document waiting for this correspondent).	
1A	**Disconnect**	Transmission has not started (the phone line is too noisy).	Check the quality of the phone line or restart the transmission at a later time.
1B	**Document transmission fault**	Document transmission error.	Transmission: restart the transmission. Reception: ask your correspondent to retransmit the document.
50	**Server Error**	Invalid parameterized SMS server number or a communication error occured during data transfer.	Check the parameterized SMS server number and/or restart transmission.

1.3 MAINTENANCE-TUNING

1.3.1 SUPPLY VOLTAGES: CONNECTIONS BETWEEN THE POWER SUPPLY BOARD AND CPU BOARD

CPU board pin CN° (CN11)	Values	Function
8-9	+ 5 V	5V Supply
4-6-7-10-11	GND	Ground
5-12-13	+ 24 V	24V Supply

Remark(s) : The mains input of the power supply is protected by a fuse.

1.3.2 CHECKING THE QUALITY OF PRINTS AND TUNING THE SCANNER

To check or improve the quality of prints, you should first tune the scanner. Follow this procedure:

1 - Press ▼, enter ***** then **A** on the keyboard and confirm with **OK**.
The terminal reboots.

2 - Start making copies of documents on the CIS window of the flatbed scanner and check the quality of the copies.

If the problem persists and if it is related to the scanner:

- Repeat the tuning procedure (step **1**).

If the problem persists and if it is related to the printer (the scanner still provides unsatisfactory results):

1 - Press ▼ then enter **56** on the keyboard. The terminal prints the list of printer tunings.

2 - Check the printer's printing and copying parameters.

3 - Check the consumable.

1.4 DISASSEMBLY/ASSEMBLY WORKSHEETS

Attention - BEFORE DISASSEMBLING/ASSEMBLING, MAKE SURE THE TERMINAL IS SWITCHED OFF.
DISCONNECT ALL CORDS AT THE FRONT AND BACK OF THE TERMINAL (LINE, USB AND POWER SUPPLY).

This device complies with IEC60825-1:1993+A1:1997+A2:2001 standard, is classified as laser class 1 product and contains one class 3B laser diode, 10.72 mW max, 770-795 nm and other class 1 LEDs (280 µW at 639 nm).

The maximum breakdown output power of radiation of laser diode is 50 mW at 770-795 nm.

Remark(s) : Depending on the model, remove the front panel.

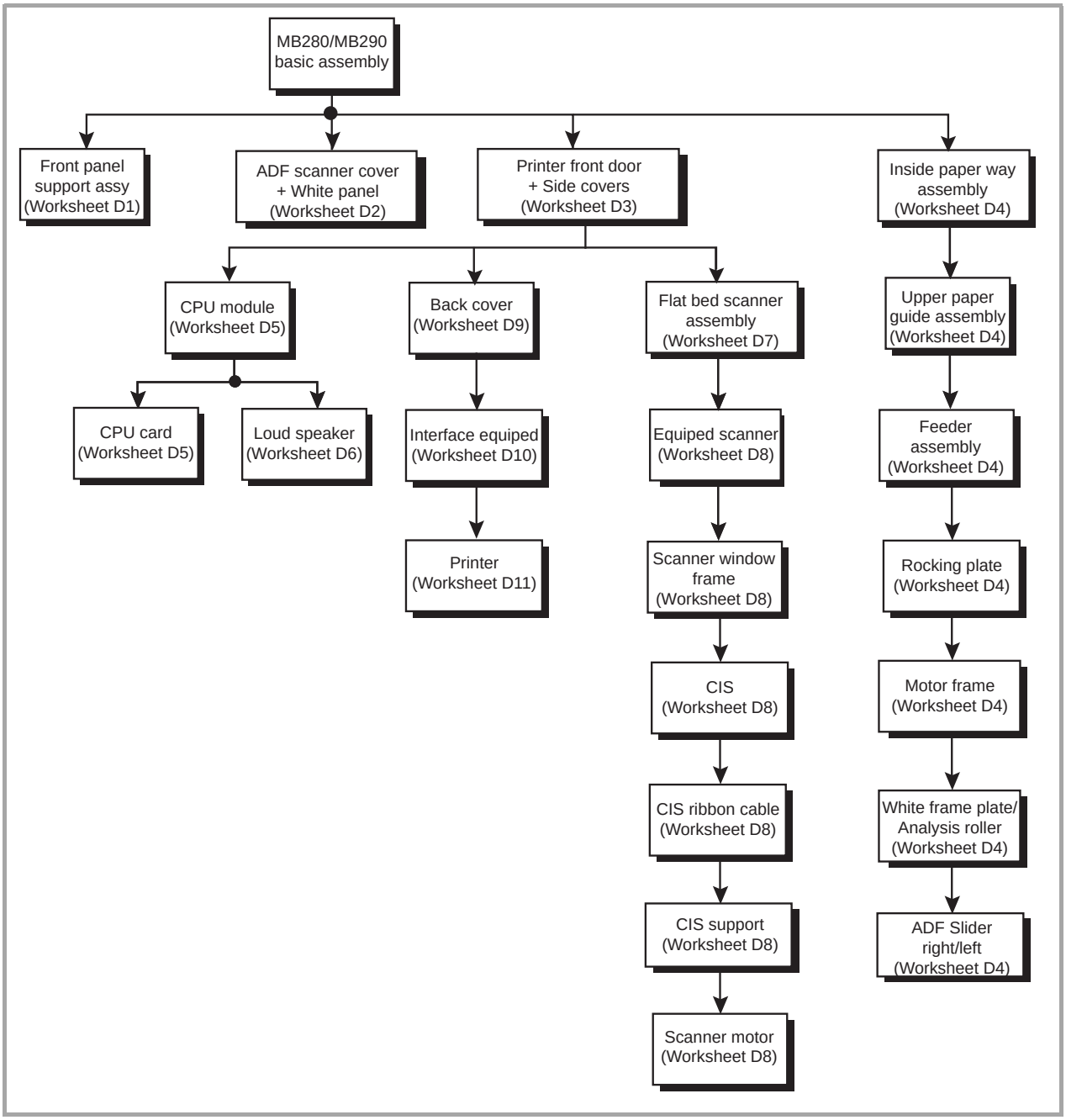
1.4.1 LIST OF TOOLS

- Cross-threaded (Philips) screwdriver
- Flat screwdriver (medium size)

1.4.2 LIST OF WORKSHEETS

- D1= Equiped front panel
- D2= ADF Scanner cover and white panel
- D3= Printer front door and side covers
- D4= Inside paper way assembly
- D5= CPU Module
- D6= Loud speaker
- D7= Flatbed scanner assembly
- D8= Equiped scanner - Scanner window frame - CIS - CIS ribbon cable - CIS support - Scanner motor
- D9= Back cover
- D10= Equiped Interface
- D11= Printer

1.4.3 WORKSHEET CHART


MB280/MB290 basic assembly
Front panel support assy (Worksheet D1)
ADF scanner cover + White panel (Worksheet D2)
Printer front door + Side covers (Worksheet D3)
Inside paper way assembly (Worksheet D4)
CPU module (Worksheet D5)
Back cover (Worksheet D9)
Flat bed scanner assembly (Worksheet D7)
Upper paper guide assembly (Worksheet D4)
CPU card (Worksheet D5)
Loud speaker (Worksheet D6)
Interface equiped (Worksheet D10)
Equiped scanner (Worksheet D8)
Feeder assembly (Worksheet D4)
Printer (Worksheet D11)
Scanner window frame (Worksheet D8)
Rocking plate (Worksheet D4)
CIS (Worksheet D8)
Motor frame (Worksheet D4)
CIS ribbon cable (Worksheet D8)
White frame plate/ Analysis roller (Worksheet D4)
CIS support (Worksheet D8)
ADF Slider right/left (Worksheet D4)
Scanner motor (Worksheet D8)

D1	**OBJECT :**EQUIPED FRONT PANEL

Requirements

- None.

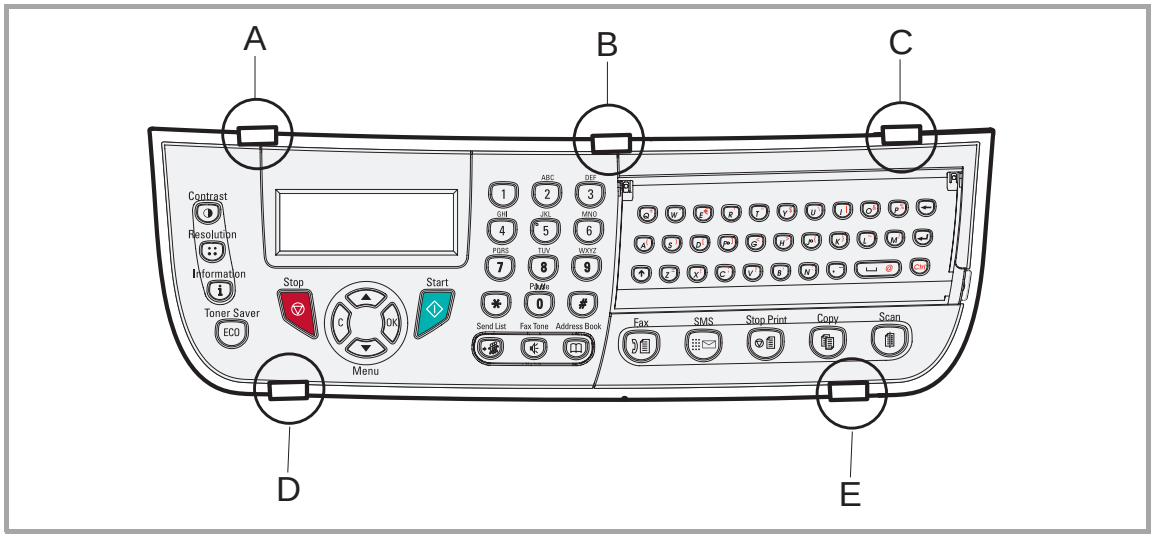
Preliminary steps

- None.

Disassembly

1 - Stand in front of the terminal.

2 - Unlock the three clips of the front panel (**A**, **B** and **C**).



3 - Pull the panel towards yourself to release it from the two bottom slots (**D** and **E**).

4 - Disconnect the panel ribbon cable from the panel card connector.

5 - Disassemble the equiped front panel.

Assembly

1 - Unpack and check all new components.

2 - Connect the panel ribbon cable to the panel card connector.

3 - Position the panel by inserting the two lower bearings (**D** and **E**) into their slots then clip the upper part into place.

D2	**OBJECT :**ADF SCANNER COVER AND WHITE PANEL

Requirements

- Flat screwdriver (medium size).
- Cross-threaded (Philips) screwdriver.

Preliminary steps

- None.

Disassembly

White panel

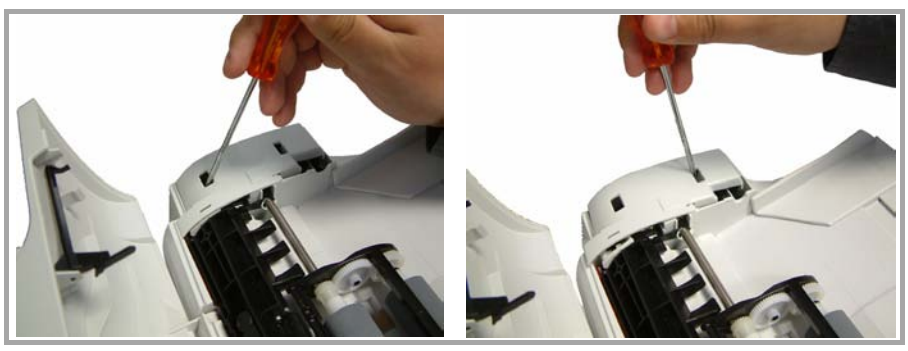
1 - Stand in front of the terminal and open the ADF scanner cover.

2 - Pull out the white panel located inside the ADF scanner cover.

ADF scanner cover

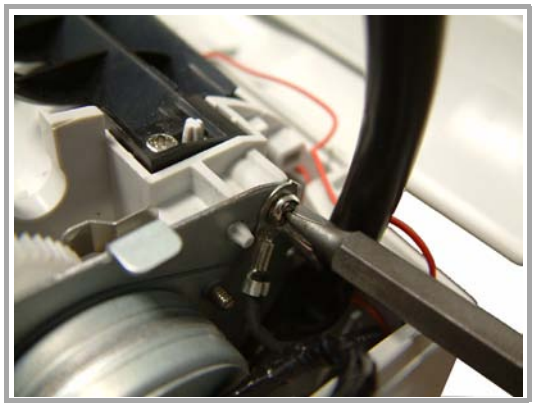
1 - Close the ADF scanner cover and open the ADF cover assembly.

2 - Remove the ADF motor cover from its two slots using a flat screwdriver then disassemble the ADF motor cover.

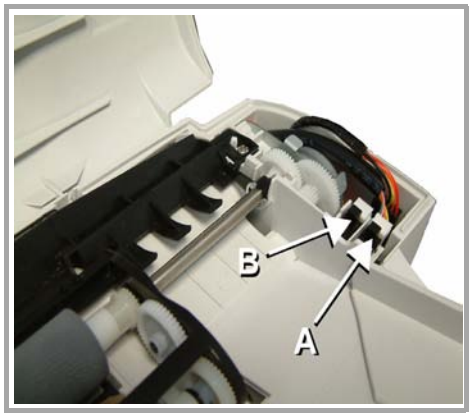


D2	**OBJECT :**ADF SCANNER COVER AND WHITE PANEL *(CONTINUED)*

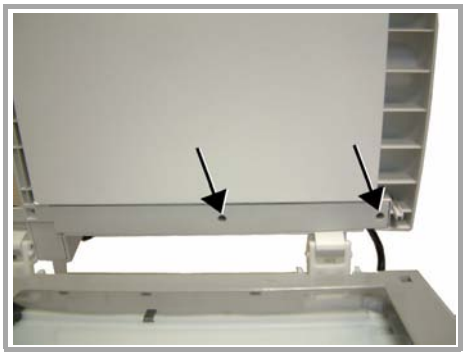
3 - Unscrew the mounting screw of the ground cable.



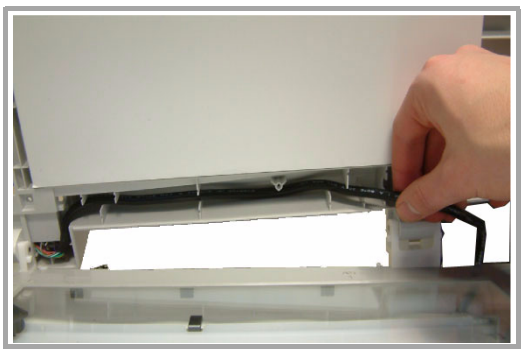
4 - Disconnect the ADF scanner cover sensor connector (**A**) and the paper sensor connector (**B**).



5 - Open the ADF scanner cover, unscrew the two mounting screws of the cable cover and remove the cable cover.



6 - Remove the ground cable, the ADF cover sensor connector and the paper sensor connector from their cable guide then slide them out of the ADF scanner cover.



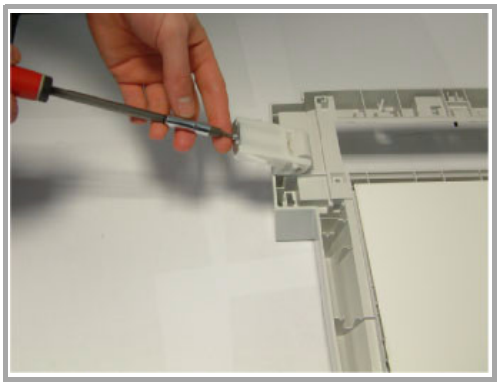
D2	**OBJECT :**ADF SCANNER COVER AND WHITE PANEL *(CONTINUED)*

7 - Insert a flat screwdriver in each slot of the two ADF scanner cover hinges.

Left slot of the left hinge

Right slot of the left hinge

8 - Lift and remove the ADF scanner cover, do not forget the mounting screws of the hinges.

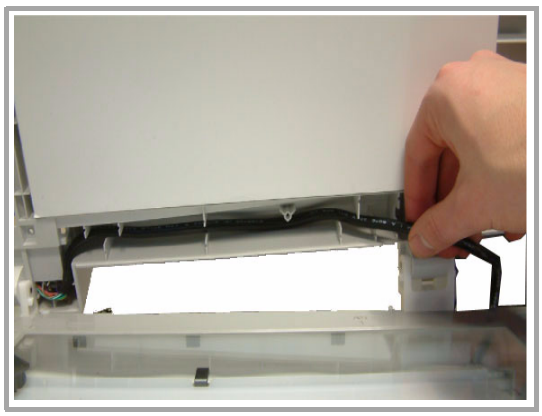


Assembly

1 - Unpack and check all new components.

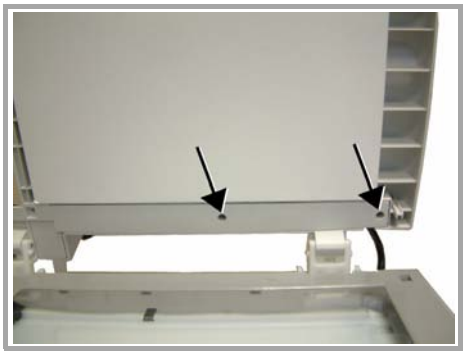
2 - Screw the mouting screws of the two hinges and position the ADF scanner cover by inserting the two hinges in their slots.

3 - Insert the ground cable, the ADF cover sensor cable and the paper sensor cable in the cable guide.



D2	**OBJECT :**ADF SCANNER COVER AND WHITE PANEL *(CONTINUED)*

4 - Position the cable cover, screw the two mouting screws then close the ADF scanner cover.

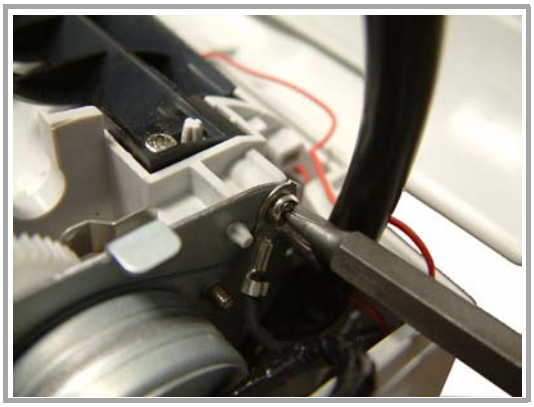


5 - Connect the paper sensor connector (black end) and the ADF cover sensor connector (white end).

ADF cover sensor

Paper sensor

6 - Screw the mouting screw of the ground cable.



7 - Clip the ADF motor cover in its slots and close the ADF feeder cover.

8 - Stick the white panel inside the ADF scanner cover.

D3	**OBJECT :**PRINTER FRONT DOOR AND SIDE COVERS

Requirements

- Cross-threaded (Philips) screwdriver.
- Flat screwdriver.

Preliminary steps

- None.

Disassembly

Printer front door

1 - Stand in front of the terminal.

2 - Push the left and right side of the printer front door and simultaneously pull it towards yourself.

3 - Move the arms away from each other and remove the printer front door.

Side covers

1 - Open the printer's paper tray.

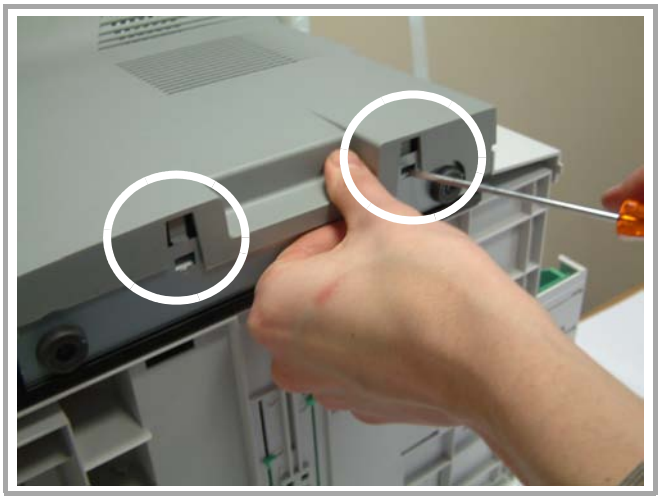
2 - Unscrew the two mounting screws on the front and back of the side covers.

Front mounting screw of the right hand side cover

Back mounting screw of the right-hand side cover

D3	**SUBJECT:** PRINTER FRONT DOOR AND SIDE COVERS *(CONTINUED)*

3 - Using a flat screwdriver, unscrew the side covers from their slots located under the terminal.



4 - Unclip the side covers from the top slots located at the back of the terminal and pivot them towards yourself to remove them.

5 -Remove the side covers.

Assembly

1 - Unpack and check all new components.

2 - Assemble the covers by reversing the steps for the disassembly procedure.

3 - Assemble the printer front door by reversing the steps for the disassembly procedure.

D4	**OBJECT :** INSIDE PAPER WAY ASSEMBLY

Requirements

- Cross-threaded (Philips) screwdriver.
- Flat screwdriver.

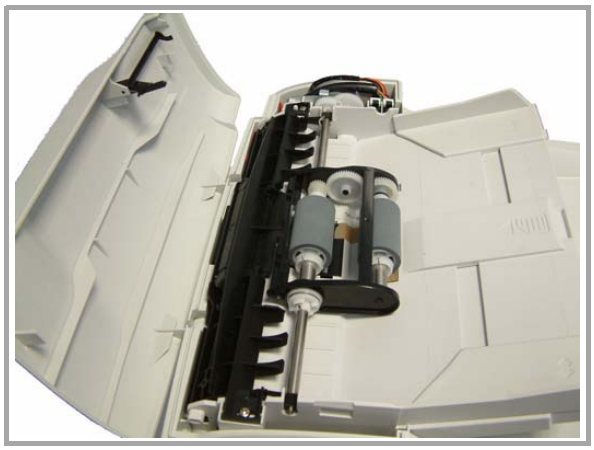
Preliminary steps

- None.

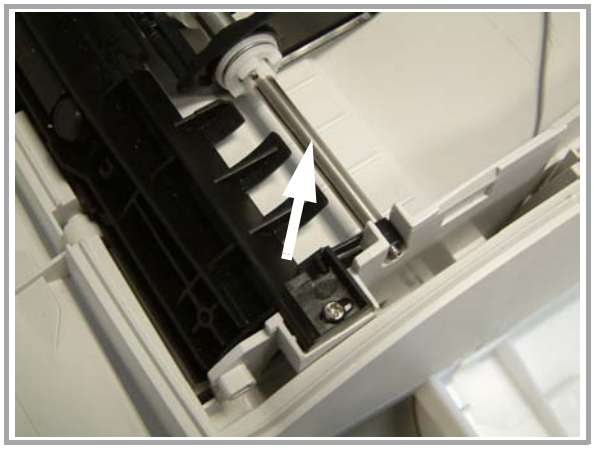
Feeder assembly

Disassembly

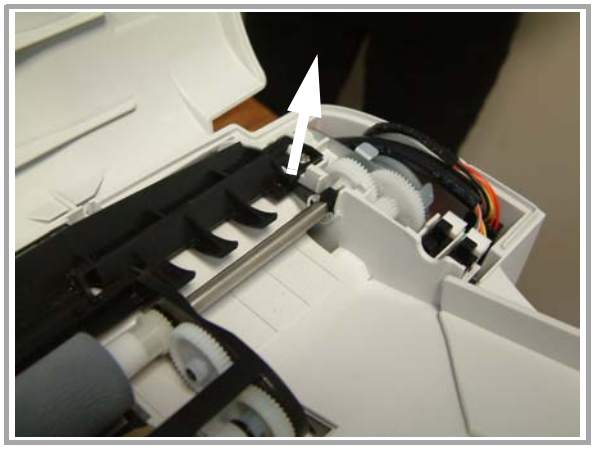
1 - Open the ADF cover.



2 - Lift the roller bearing.



3 - Lift the roller bearing from the other end of the feeder.



D4	**OBJECT :** INSIDE PAPER WAY ASSEMBLY *(CONTINUED)*

4 - Lift the feeder and remove the feeder.

Assembly

1 - Unpack and check all new components.

2 - Position the feeder in its slot, positionning correctly the teeth gear in the motor assembly.

3 - Lower the two roller bearings.

LFX Rocking plate and cork

Preliminary steps

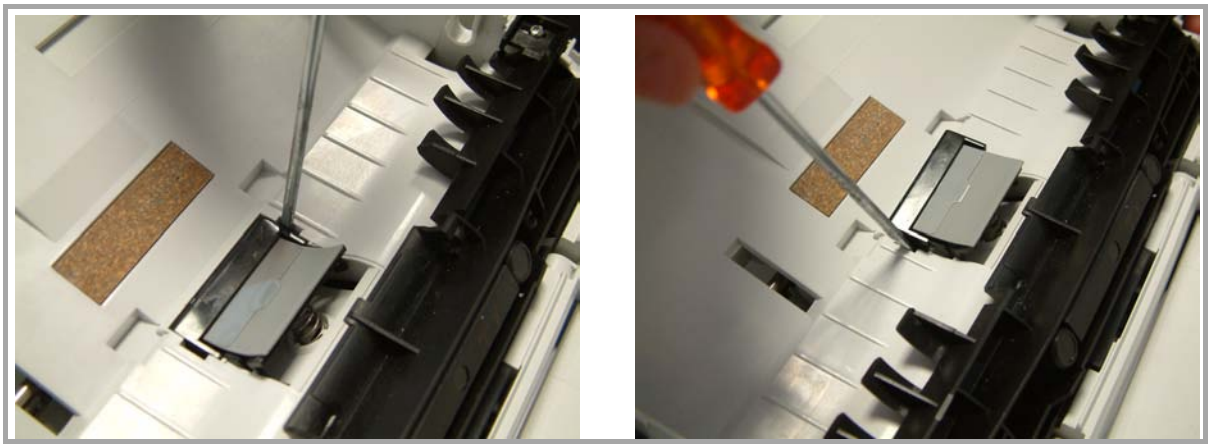
- Disassemble the feeder aseembly.

Disassembly

- Rocking plate

1 - Insert a screwdriver in the right slot as shown below and make a pivoting movement downwards without strain to remove the rocking plate.

2 - Repeat the previous step for the left slot of the rocking plate.

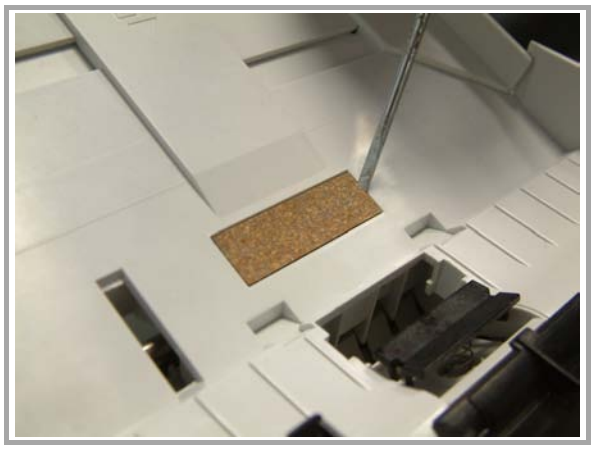


3 - Remove the feeder shoe, the rocking plate and the rocking lever spring.

- LFX Cork

1 - From the upper part of the ADF scanner.

2 - Insert a screwdriver in the right slot as shown below and make a pivoting movement downwards without strain to remove the LFX cork.



3 - Remove the LFX cork.

D4	**OBJECT :**INSIDE PAPER WAY ASSEMBLY *(CONTINUED)*

Assembly

- LFX Cork
  - **1** - Make sure that the slot of the cork on the paper input guide is clean.
  - **2** - Unpack and check all new components.
  - **3** - Remove the adhesive from the cork and place the cork in its slot.
- Rocking plate
  - **1** - Unpack and check all new components.
  - **2** - Equip the rocking plate with the rocking lever spring.
  - **3** - Position the assembly in its slot.
  - **4** - Place the feeder shoe on the rocking plate respecting the assembly structure then press on the right and left sides until it reaches its final position.

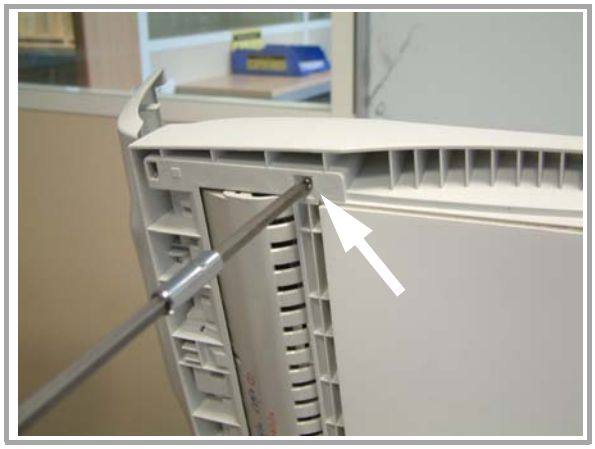
Inside paper way assembly

Preliminary steps

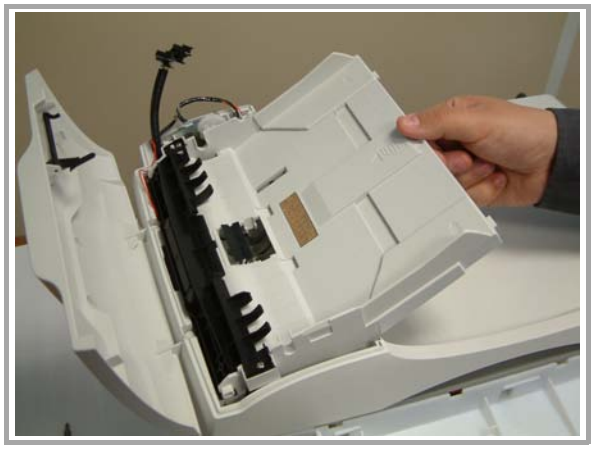
- None.

Disassembly

1 - Lift the ADF cover and unscrew the two mouting screws of the inside paper way assembly.

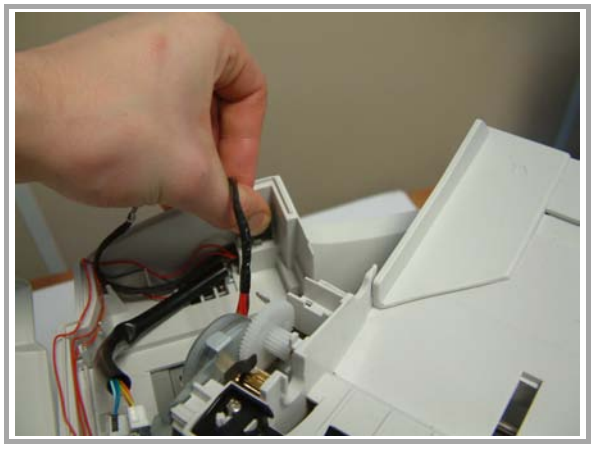


2 - Lift the inside paper way assembly and remove it from its slot without disassembling it.

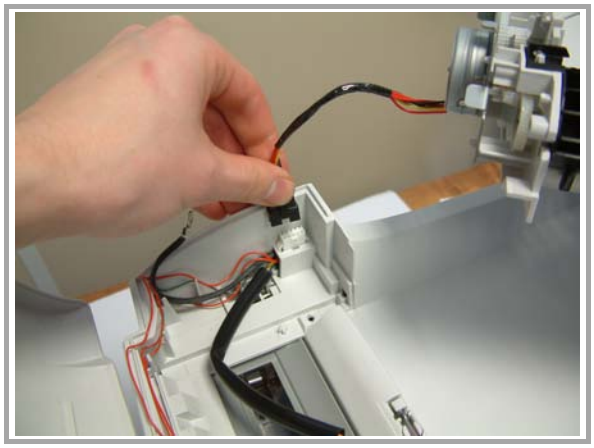


D4	**OBJECT :** INSIDE PAPER WAY ASSEMBLY *(CONTINUED)*

3 - Remove the motor frame cable from its cable guide.



4 - Disconnect the connector reaching the ADF cover and remove the inside paper way assembly.



Assembly

1 - Unpack and check all new components.

2 - Position the inside paper way assembly near its final slot.

3 - Connect the motor frame connector to its connector.

4 - Hold the inside paper way assembly, open the ADF cover. Screw the two mounting screws.

D4	**OBJECT :** INSIDE PAPER WAY ASSEMBLY *(CONTINUED)*

Upper paper guide assembly

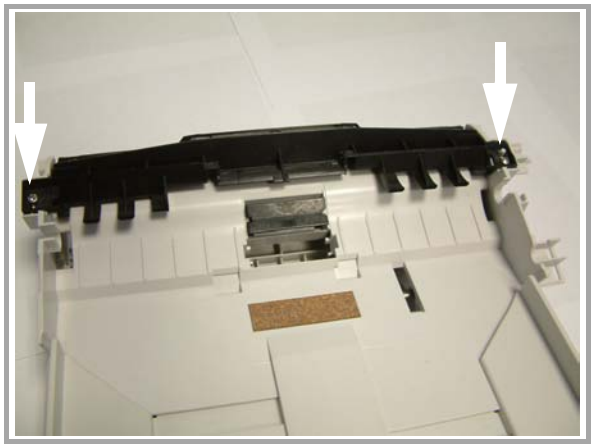
Preliminary steps

- Disassemble the feeder assembly.

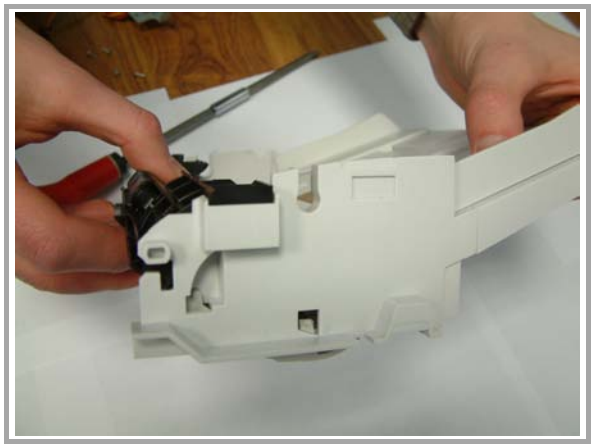
Disassembly

1 - Open the ADF cover.

2 - Unscrew the two mounting screws of the paper guide assembly.



3 - Make a forward movement and remove the paper guide assembly.



Assembly

1 - Unpack and check all new components.

2 - Insert the paper guide assembly forward in the paper input guide.

3 - Screw the two mounting screws.

D4	**OBJECT :** INSIDE PAPER WAY ASSEMBLY *(CONTINUED)*

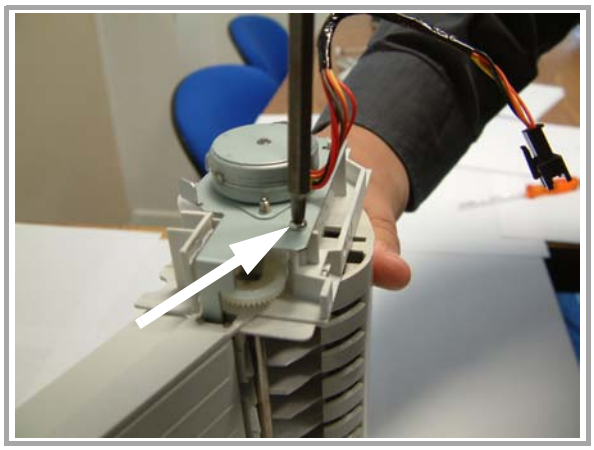
Motor frame

Preliminary steps

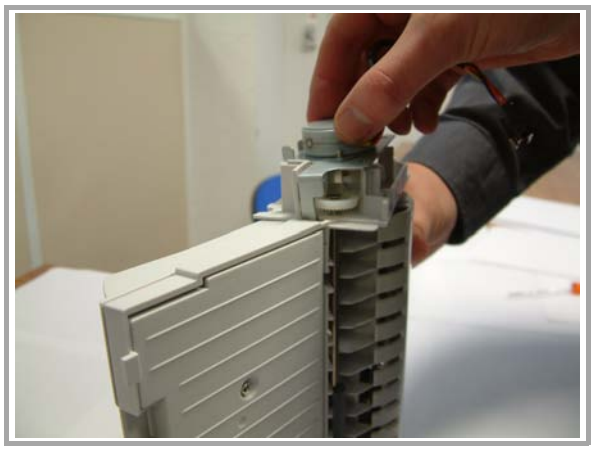
- Disassemble the inside paper way assembly.

Disassembly

1 - Unscrew the mounting screw of the motor frame.



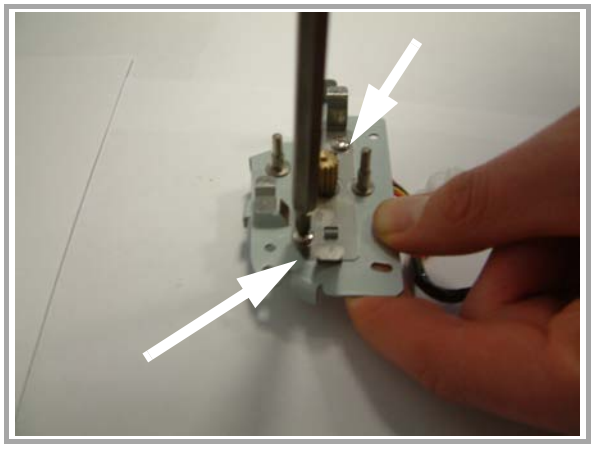
2 - Lift and remove the motor frame. Locate the teeth gears and remove them.



Motor

Disassembly

1 - Unscrew the two mounting screws of the motor and remove the motor.



D4	**OBJECT :** INSIDE PAPER WAY ASSEMBLY *(CONTINUED)*

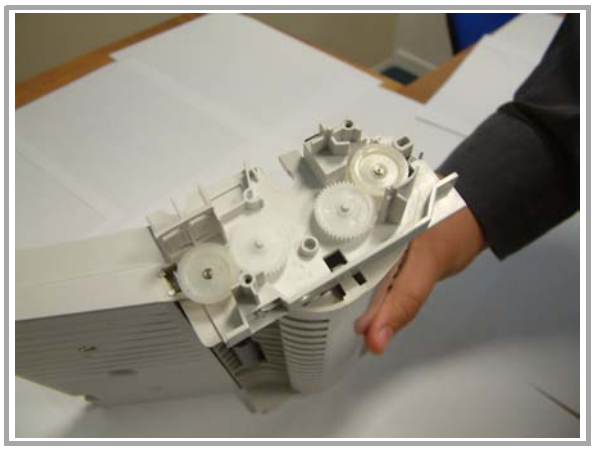
Assembly

1 - Position the motor on its frame and screw the two mounting screws.

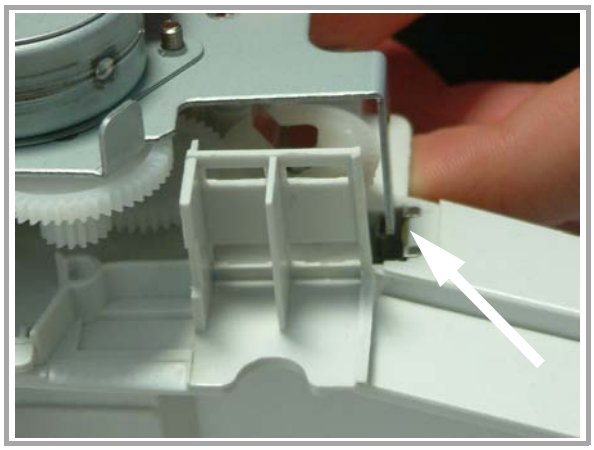
Motor frame assembly

1 - Unpack and check all new components.

2 - Position the teeth gears respecting their location identified during disassembly.



3 - Position the equiped motor frame in its slot on the inside paper way assembly.



4 - Screw the mounting screw of the motor frame.

D4	**OBJECT :** INSIDE PAPER WAY ASSEMBLY *(CONTINUED)*

White frame plate / Analysis roller / antistatic brush / ADF Sliders

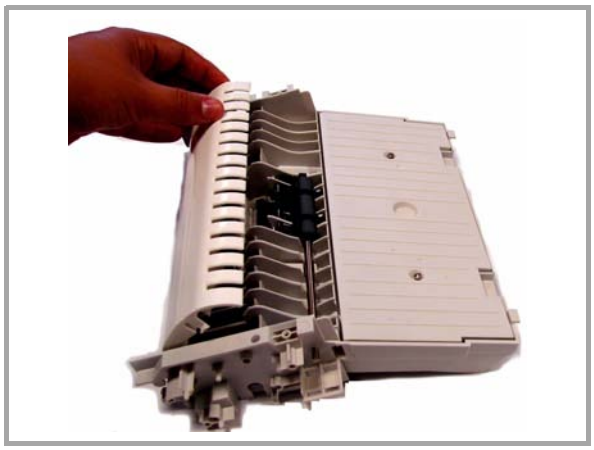
Preliminary steps

- Disassemble the inside paper way assembly and motor frame for analysis rollers.

White frame plate disassembly

1 - Turn the inside paper way assembly upside down.

2 - Lift the white frame plate to disassemble it from the inside paper way assembly and remove it.



White frame plate assembly

1 - Unpack and check all new components.

2 - Position the white frame plate on the inside paper way assembly and press on the white frame plate to clip it on the inside paper way assembly.

Paper deflector disassembly

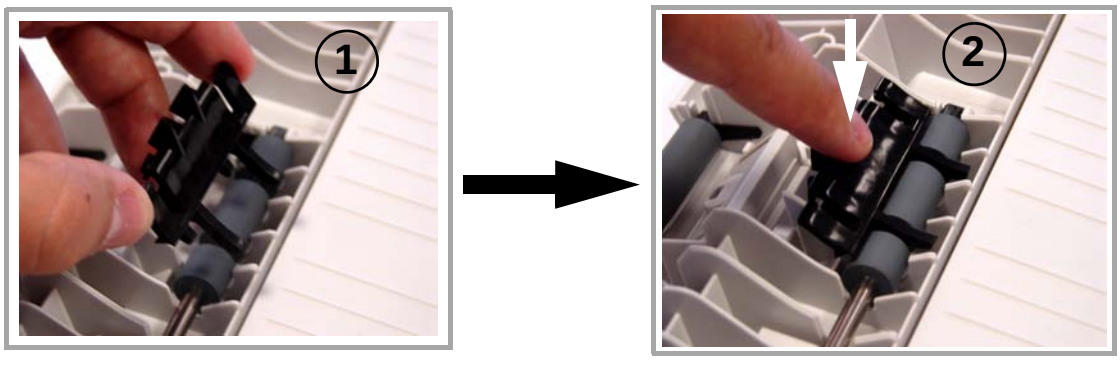
1 - Turn the inside paper way assembly upside down.

2 - Unclip the paper deflector and remove it.

Paper deflector assembly

1 - Unpack and check all new components.

2 - Position the paper deflector on the analysis roller and press to clip it.

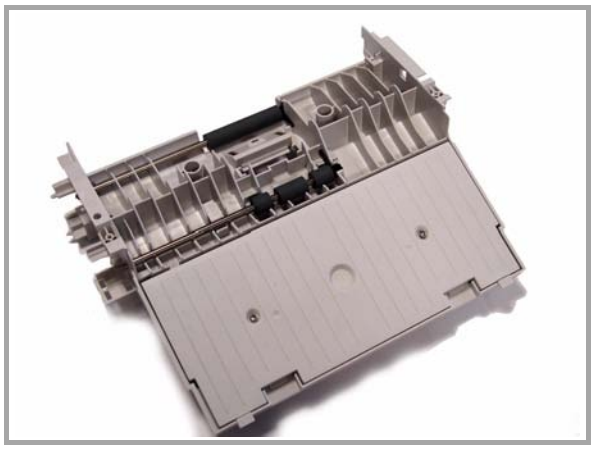


D4	**OBJECT :** INSIDE PAPER WAY ASSEMBLY *(CONTINUED)*

Analysis roller disassembly

1 - Turn the inside paper way assembly upside down.

2 - Turn the roller bearing turning of each one of the analysis rollers.



3 - Remove the roller bearing turnings of the analysis rollers and remove the rollers.

Analysis roller assembly

1 - Unpack and check all new components.

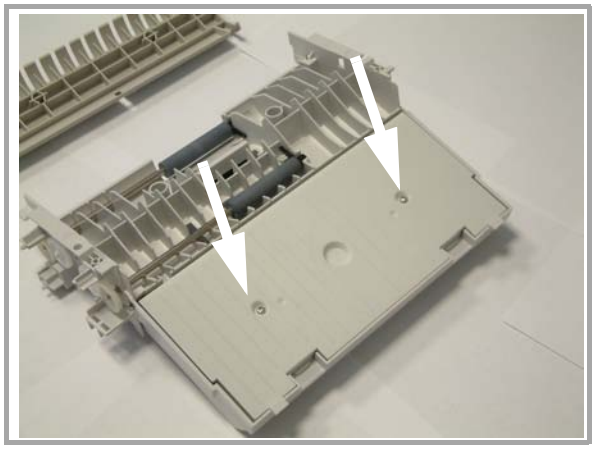
2 - Position the analysis rollers in their slots.

3 - Position the roller bearing turnings on the ends of the analysis rollers and fix them with the roller bearing turnings.

ADF sliders and antistatic brush disassembly

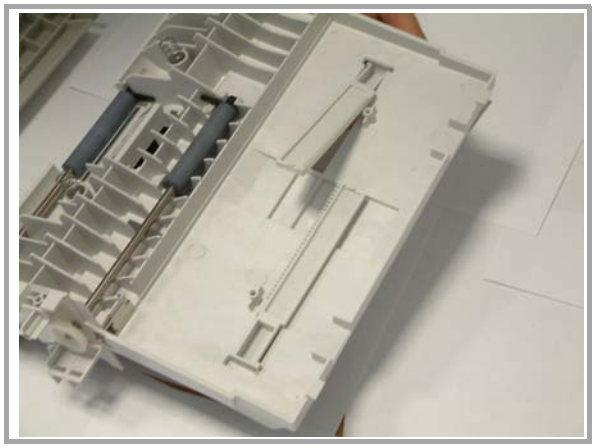
1 - Turn the inside paper way assembly upside down.

2 - Unscrew the two mounting screws of the ADFwheelbox and remove it.

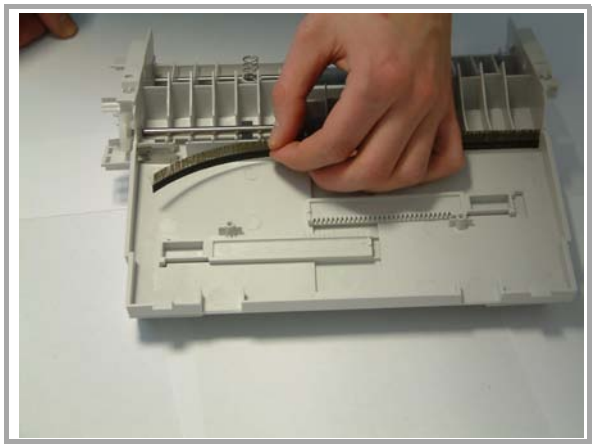


D4	**OBJECT :** INSIDE PAPER WAY ASSEMBLY *(CONTINUED)*

3 - Lift vertically the ADF sliders and remove them from the inside paper way assembly.



4 - Remove gently the antistatic brush.



ADF sliders and antistatic brush assembly

1 - Unpack and check all new components.

2 - Check that the slot of the antistatic brush is clean.

3 - Position the antistatic brush in its slot and press on the lower part to make sure the adhesives are strongly fixed.

4 - Position the ADF sliders in their slots.

5 - Position the ADF wheelbox on the inside paper way assembly.

6 - Screw the two mounting screws.

D5	**OBJECT :**CPU MODULE

Requirements

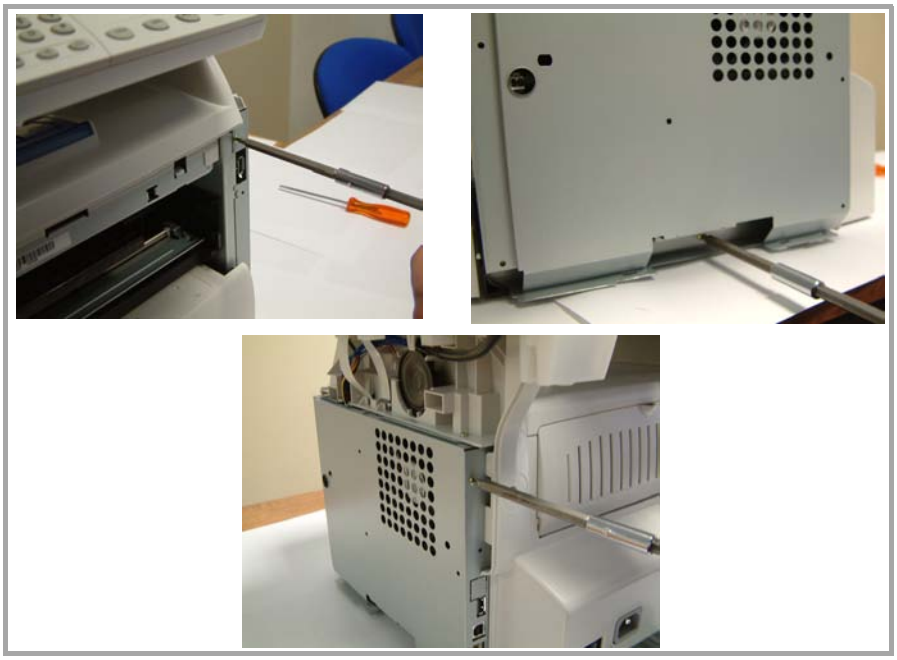
- Cross-threaded (Philips) screwdriver.

Preliminary steps

- Disassembling the printer front door and the right side cover (see worksheet D3).

Disassembly

1 - Unscrew the three mounting screws of the CPU board armour plate.



2 - Pull the CPU board armour plate towards yourself and remove it.

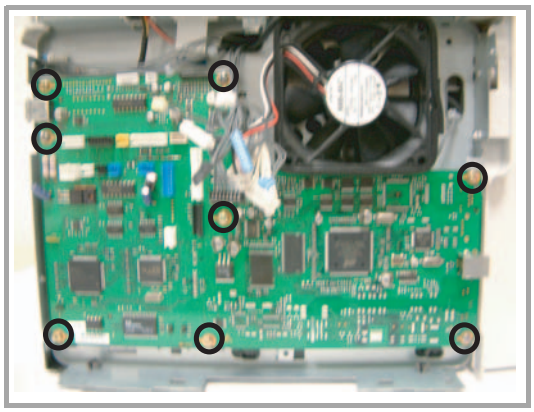
3 - Unscrew the mounting screw of the CPU card ground connector and disconnect it.

4 - Disconnect all incoming cords and leads from the CPU module connectors.

Attention - MEMORIZE ALL CONNECTIONS FOR REASSEMBLY.

D5	**OBJECT :**CPU MODULE *(CONTINUED)*

5 - Unscrew the eight mounting screws and remove the CPU board.



Assembly

1 - Unpack and check all new components.

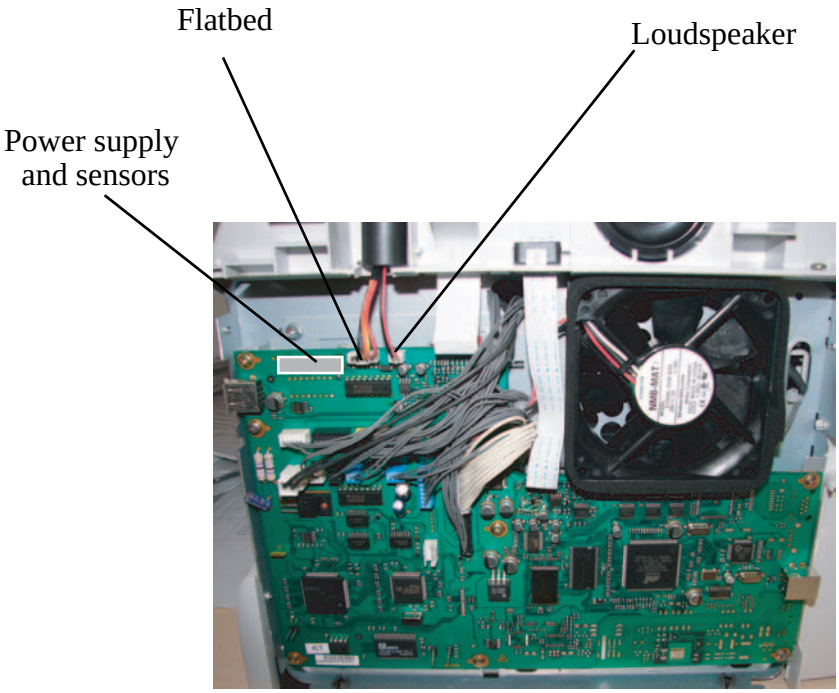
2 - Place the CPU board in the rack, screw in and tighten the eight mounting screws.

3 - Connect all the cords and leads to their corresponding CPU board connectors.

4 - Position and screw the ground connector to the CPU card.

5 - Position the CPU board armour plate, screw and tighten the three mounting screws.

6 - Position the right-hand side cover and the front door (see Worksheet D3).



D6	**OBJECT :** LOUD SPEAKER

Requirements

- None.

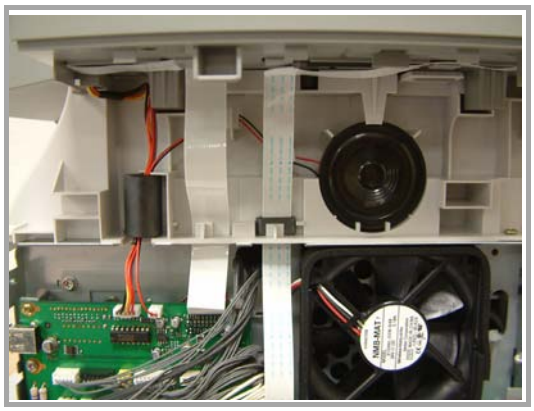
Preliminary steps

- Disassembling the front door and the right-hand side cover (see Worksheet D3).
- Disassembling the CPU armour plate (see Worksheet D5).

Disassembly

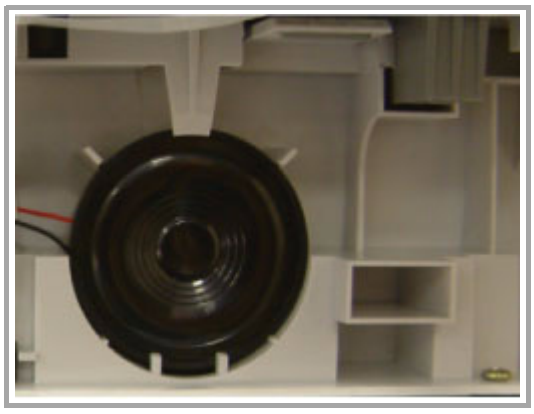
1 - Disconnect the loudspeaker connector from the CPU board.

2 - Remove the loudspeaker connector from its ferrite tube and cable guide.



Attention - MEMORIZE THE CABLE GUIDE FOR REASSEMBLY.

3 - Press the top clip inwards until it unclips and pull the loudspeaker towards yourself.



4 - Disassemble the loudspeaker.

Assembly

1 - Unpack and check all new components.

2 - Position the loudspeaker in front of its slot and insert the lower part.

3 - Press the top part of the loudspeaker until it clicks into place.

4 - Place the loudspeaker connector into its cable guide, do not forget the ferrite tube.

5 - Connect the loudspeaker connector to the CPU board.

6 - Put the CPU board armour plate into place (see Worksheet D5).

7 - Put the right-hand side cover and the front door into place (see Worksheet D3).

D7	**OBJECT :**FLATBED SCANNER ASSEMBLY

Requirements

- Cross-threaded (Philips) screwdriver.
- Flat screwdriver.

Preliminary steps

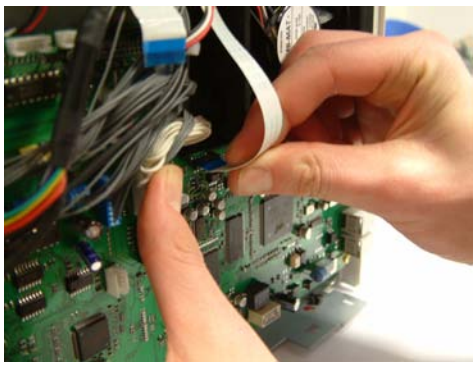
- Disassemble the flatbed scanner cover (see Worksheet D2).
- Disassemble the front door and the side covers (see Worksheet D3).
- Disassemble the CPU board armour plate (see Worksheet D5).

Disassembly

1 - Disconnect the scanner connector from the CPU board and remove it from its ferrite tube and cable guide.

2 - Disconnect the front panel ribbon cable and the CIS ribbon cable from the CPU board.

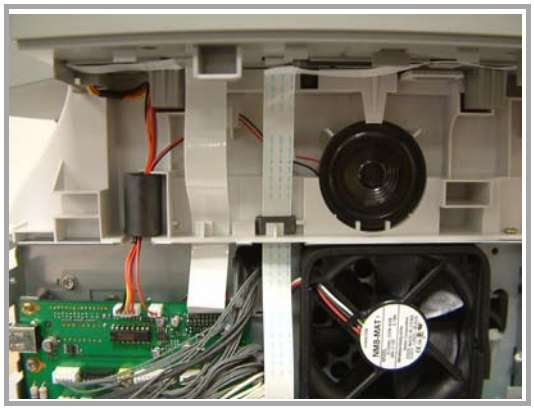
Panel ribbon connection



CIS ribbon connection

Attention - MEMORIZE THE CONNECTIONS FOR REASSEMBLY.

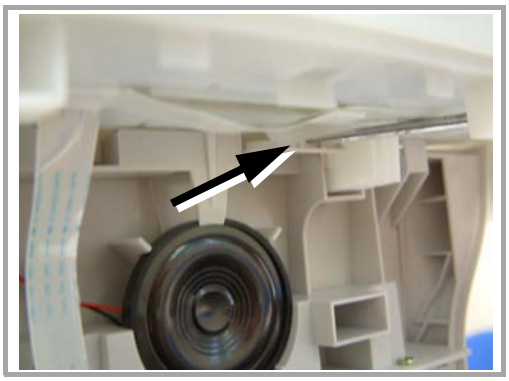
3 - Remove the front panel and CIS ribbon cables from their cable guide.



Attention - MEMORIZE THE CONNECTIONS FOR REASSEMBLY.

D7	**OBJECT :**FLATBED SCANNER ASSEMBLY *(CONTINUED)*

4 - Unlock the assembled flatbed scanner with a flat screwdriver and pull it towards yourself.



5 - Lift the assembled flatbed scanner and disassemble it.

Assembly

1 - Unpack and check all new components.

2 - Stand in front of the terminal.

3 - Position the assembled flatbed scanner on the equiped printer and slide it towards the left until it clicks into place.

4 - Place the front panel and CIS ribbon cables into their cable guide.

5 - Connect the front panel and CIS ribbon cables to the CPU board.

6 - Connect the scanner connector to the CPU board, do not forget the ferrite tube.

7 - Position the CPU board armour plate (see Worksheet D5).

8 - Position the side covers and the printer front door (see Worksheet D3).

9 - Position the ADF scanner cover (see Worksheet D2).

D8	**OBJECT :**EQUIPED SCANNER - SCANNER WINDOW FRAME - CIS - CIS RIBBON CABLE - CIS SUPPORT - SCANNER MOTOR

Requirements

- Cross-threaded (Philips) screwdriver.
- Flat screwdriver.

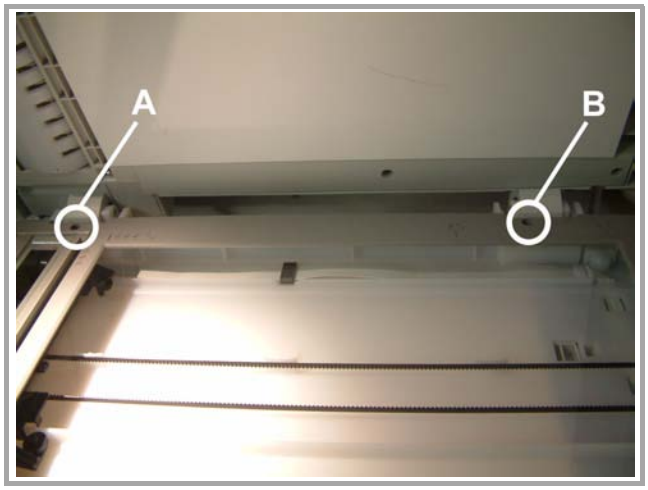
Preliminary steps

- Disassemble the scanner cover (see Worksheet D2).
- Disassemble the printer front door and the side covers (see Worksheet D3).
- Disassemble the CPU board armour plate (see Worksheet D5).
- Disassemble the assembled flatbed scanner (see Worksheet D7).

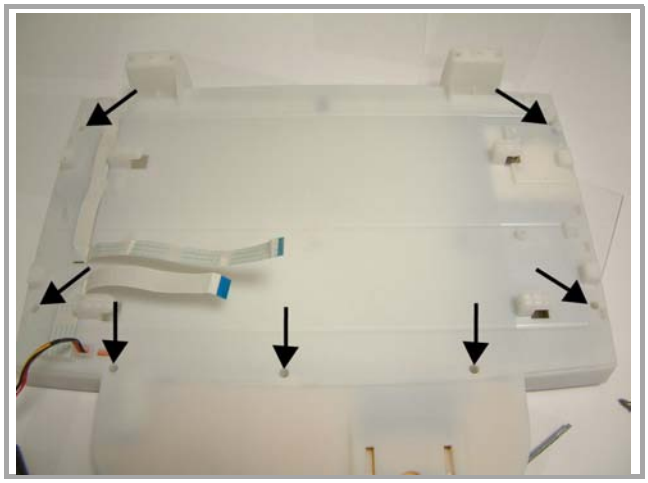
Disassembly

- Scanner window frame

1 - Unscrew the two mounting screws on the equiped scanner (**A** and **B**) and turn it upside down.



2 - Unscrew the seven mounting screws at the back of the equiped scanner and turn it upside down.

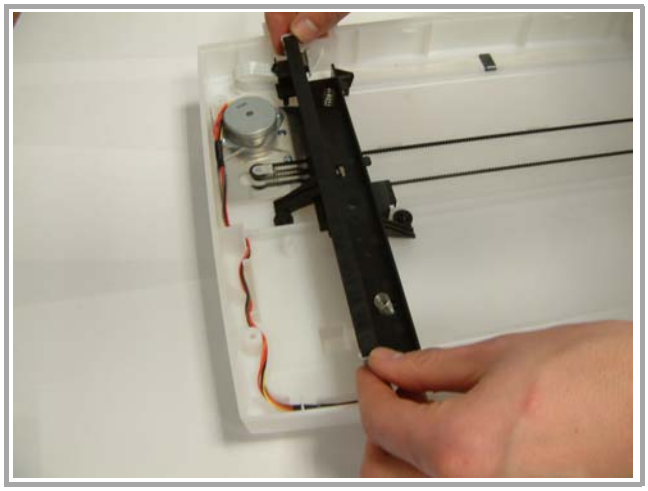


D8	**OBJECT :**EQUIPED SCANNER - SCANNER WINDOW FRAME - CIS - CIS RIBBON CABLE - CIS SUPPORT - SCANNER MOTOR

3 - Lift the front part of the scanner window panel and disassemble it.

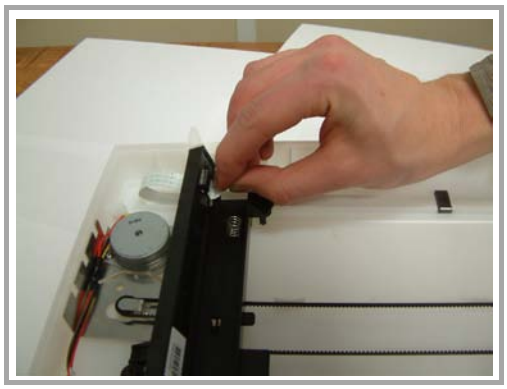
- CIS

1 - Lift the CIS backwards.



2 - Disconnect the CIS ribbon cable and disassemble it from its two side slots.

Attention - KEEP THE CIS SUPPORT SPRINGS AND SLIDES.

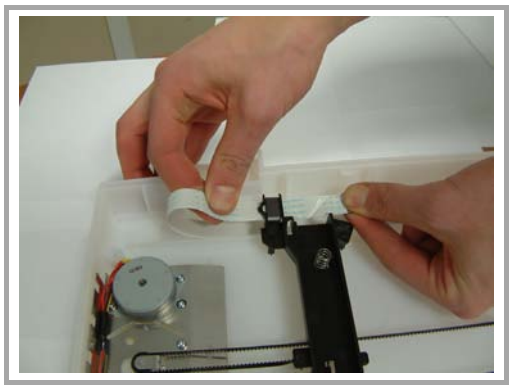


3 - Disassemble the CIS.

D8	**OBJECT :**EQUIPED SCANNER - SCANNER WINDOW FRAME - CIS - CIS RIBBON CABLE - CIS SUPPORT - SCANNER MOTOR

- CIS ribbon cable

1 - Unfold the end of the CIS ribbon cable and remove it from its slot.



2 - Slide the CIS ribbon cable out of its ferrite tube which is fixed to the CIS panel and remove it from the scanner.

3 - Remove the CIS ribbon cable from its cable guides located above and below the scanner bottom then slide it to extract it from the scanner bottom.

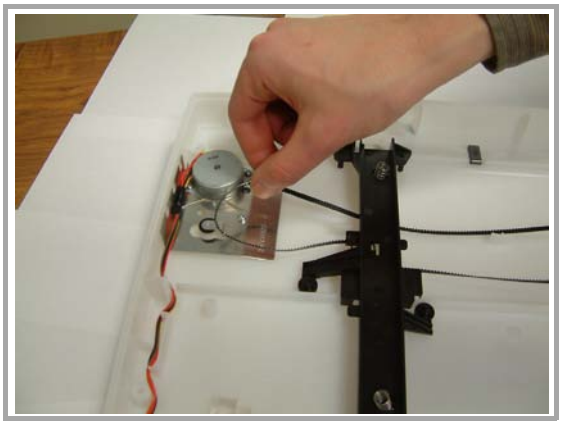
Attention - MEMORIZE THE CABLE GUIDE FOR REASSEMBLY.

4 - Disasssemble the CIS ribbon cable.

- CIS support

1 - Lift the CIS drive pulley and the drive to extract the CIS drive pulley from its slot.

2 - Remove the belt from the drive pulley.

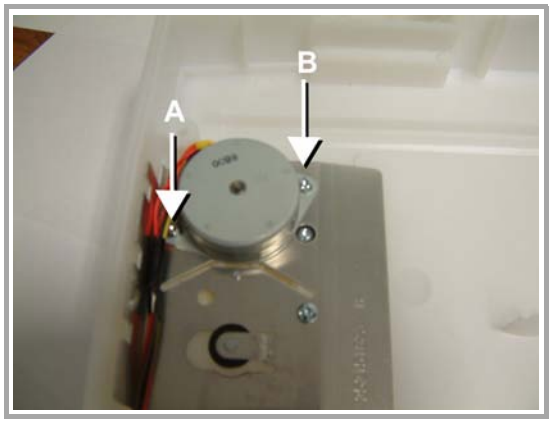


3 - Lift then disassemble the CIS panel.

D8	**OBJECT :**EQUIPED SCANNER - SCANNER WINDOW FRAME - CIS - CIS RIBBON CABLE - CIS SUPPORT - SCANNER MOTOR

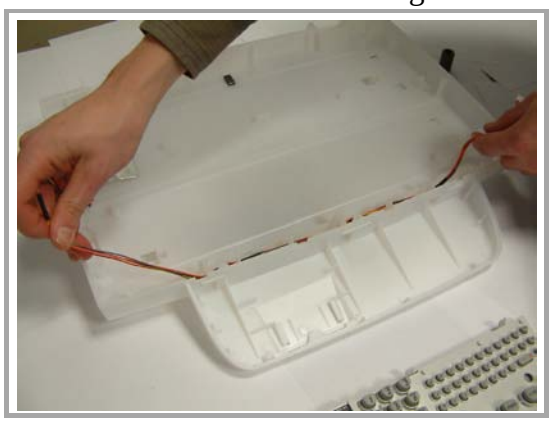
- Scanner motor

1 - Unscrew the two mounting screws of the scanner motor (**A** et **B**).



2 - Remove the end of the scanner motor connector from its ferrite tube.

3 - Remove the CIS motor connector from its cable guide.



4 - Disassemble the scanner motor.

Assembly

1 - Unpack and check all new components.

2 - Position the scanner motor and screw in the two mounting screws.

3 - Place the motor connector in its cable guide, do not forget the ferrite tube.

4 - Position the CIS support, place the belt in the CIS drive pulley, do not forget the CIS support springs.

5 - Check that there is enough grease on the pulley motor axis.

6 - Place the CIS ribbon cable in its cable guide, do not foget the ferrite tube, then connect it to the CIS.

7 - Place the CIS, do not forget its slides and support springs.

8 - Position the scanner window frame by first inserting the back part, then insert the front part. Screw in the two mounting screws for the scanner window frame.

9 - Turn the equiped scanner around and screw in the seven mounting screws.

10 - Assemble the assembled flatbed scanner (see Worksheet D7).

11 - Assemble the CPU board armour plate (see Worksheet D5).

D8	**OBJECT :**EQUIPED SCANNER - SCANNER WINDOW FRAME - CIS - CIS RIBBON CABLE - CIS SUPPORT - SCANNER MOTOR

12 - Assemble the side covers and the printer front door (see Worksheet D3).

13 - Assemble the ADF scanner cover (see Worksheet D2).

D9	**OBJECT :**BACK COVER

Requirements

- Cross-threaded (Philips) screwdriver.

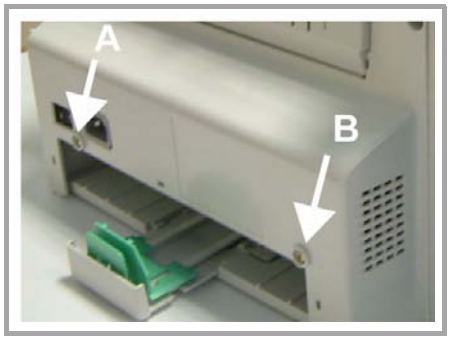
Preliminary steps

- Disassemble the ADF scanner cover (see Worksheet D2).
- Disassemble the printer front door and the side covers (see Worksheet D3).
- Disassemble the CPU board armour plate (see Worksheet D5).
- Disassemble the assembled flatbed scanner (see Worksheet D7).

Disassembly

1 - Stand behind the terminal.

2 - Unscrew the two back mounting screws on the back cover (**A** and **B**).



3 - Unscrew the two top mounting screws on the back cover (**C** and **D**).

4 - Pull the back cover towards yourself and remove it.

Assembly

1 - Unpack and check all new components.

2 - Place the back cover and screw in the four mounting screws (**A**, **B**, **C** and **D**).

3 - Assemble the assembled flatbed scanner (see Worksheet D7).

4 - Assemble the CPU board armour plate (see Worksheet D5).

5 - Assemble the printer front door and the side covers (see Worksheet D3).

6 - Assemble the ADF scanner cover (see Worksheet D2).

D10	**OBJECT :**EQUIPED INTERFACE

Requirements

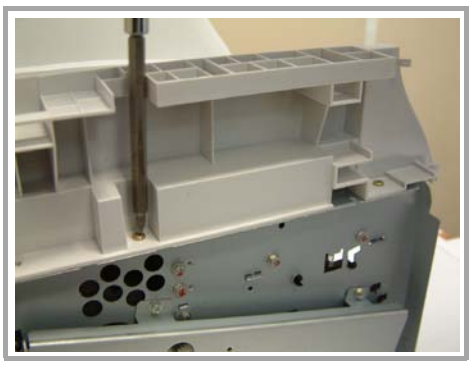
- Cross-threaded (Philips) screwdriver.

Preliminary steps

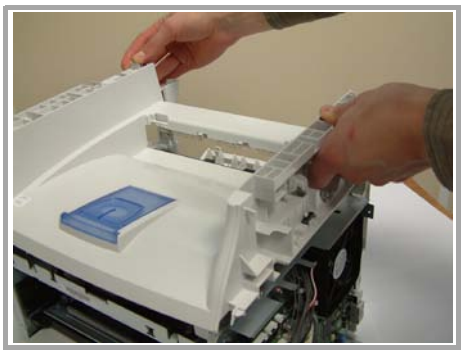
- Disassemble theADF scanner cover (see Worksheet D2).
- Disassemble the printer front door and the side covers (see Worksheet D3).
- Disassemble the CPU board armour plate (see Worksheet D5).
- Disassemble the loudspeaker (see Worksheet D6).
- Disassemble the assembled flatbed scanner (see Worksheet D7).
- Disassemble the back cover (see Worksheet D9).

Disassembly

1 - Unscrew the two mounting screws on the left and right side on the equiped interface.



2 - Lift and remove the equiped interface.



Assembly

1 - Unpack and check all new components.

2 - Position the equiped interface and screw in the four mounting screws on both sides.

3 - Assemble the back cover (see Worksheet D9).

4 - Assemble the assembled flatbed scanner (see Worksheet D7).

5 - Assemble the loudspeaker (see Worksheet D6).

6 - Assemble the CPU board armour plate (see Worksheet D5).

7 - Assemble the printer front door and the side covers (see Worksheet D3).

8 - Assemble the ADF scanner cover (see Worksheet D2).

D11	OBJECT : PRINTER

Requirements

- Cross-threaded (Philips) screwdriver.

Preliminary steps

- None.

Disassembly

1 - Stand in front of the terminal.

2 - Disassemble the equiped front panel (see Worksheet D1) and the ADF scanner cover (see Worksheet D2).

3 - Disassemble the printer front door and the side covers (see Worksheet D3).

4 - Disassemble the CPU module (see Worksheet D5) and the loudspeaker (see Worksheet D6).

5 - Disassemble the assembled flatbed scanner (see Worksheet D7).

6 - Disassemble the back cover (see Worksheet D9) and the equiped interface (see Worksheet D10).

Assembly

1 - Unpack and check all new components.

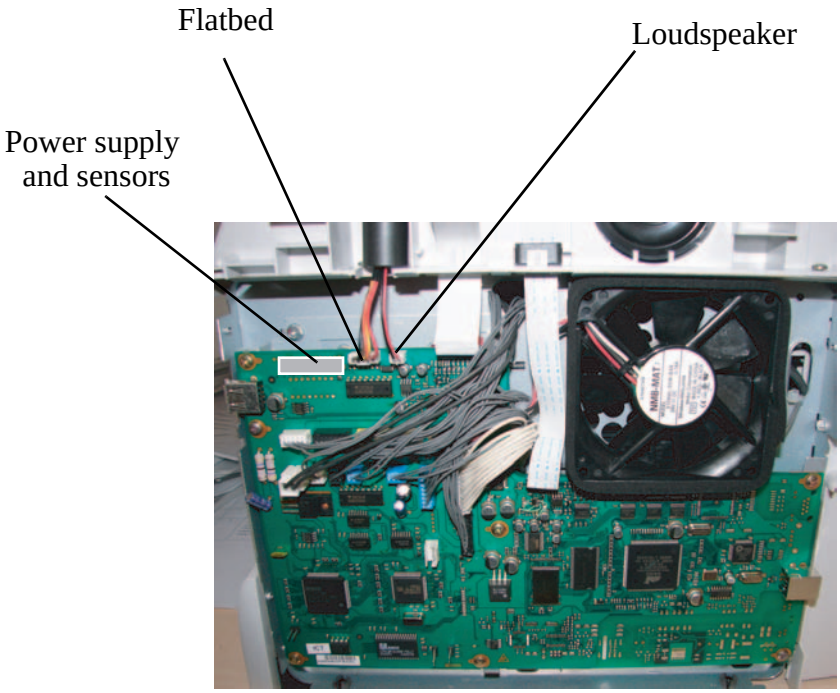
2 - Assemble the equiped interface (see Worksheet D10) and the back cover (see Worksheet D9).

3 - Assemble the flatbed scanner assembly (see Worksheet D7).

4 - Assemble the CPU module (see Worksheet D5) and the loudspeaker (see Worksheet D6).

5 - Assemble the side covers and the printer front door (see Worksheet D3).

6 - Assemble the ADF scanner cover (see Worksheet D2) and the equiped front panel (see Worksheet D1).



1.5 ADMINISTRATOR FUNCTIONS

Each one of the administrator functions described here can be accessed via a specific succession of keys.

The alphabetic keys are available via the navigation keys ▼ and ▲ via the keyboard.

For example, to enter a sequence ▼ *** A** (launching scanner tuning):

1 - Press the following key ▼.

2 - Press the following key *****.

3 - Press ▼ to display all the options available until you reach **A**.
Confirm your choice with **OK**.

1.5.1 INITIALIZING AND ERASING MEMORY

Before you start, set the 8 bit parameter installation configuration 1 to 1.

Attention - UNDOCUMENTED FUNCTIONS ARE RESERVED.

DO NOT TRY AND USE FUNCTIONS THAT ARE NOT DOCUMENTED IN THIS SECTION, THIS MAY LEAD TO THE PERMANENT LOSS OF DATA.

Attention - USE OF THESE LISTED FUNCTIONS WILL LEAD TO THE PERMANENT LOSS OF DOCUMENTS AND PARAMETERS ON THE MACHINE.

- Reset all parameters (user, installer or technical) to the default configuration (factory configuration):

▼ (#) (0)

- Erase the directory:

▼ (#) (1)

- Erase the logs:

▼ (#) (2)

- Erase the printer counters:

▼ (#) (3)

- Reinitialize the flash data (erases all):open the printer front door then:

▼ (#) (5)

- Erase mailboxes (internal) only:

▼ (#) (6)

- Erase all.
Reset to default configuration (combination of functions 0 and 8):

▼ (#) (7)

- Erase all documents stored in memory:

▼ (#) (8)

- Erase the first element of the printer queue:

▼ (#) (I)

- Erase Printer Error:

▼ (#) (T)

Then switch ON/OFF the machine.

1.5.2 OTHER FUNCTIONS

Some of the administrator functions allow you to display or print the terminal counters.

The table below details the counters available:

The counter ...	lists the number of ...
Sent pages counter	pages sent
Received pages counter	pages received
Printed pages counter	pages printed
Scanned pages counter	pages scanned
Printed sheets counter	paper sheets printed
Printer does not grip the sheet	no-paper feeds detected on the printer
Jam in printer	paper jams detected inside the printer
Jam in printer output	paper jams detected on the exit tray
ADF scanner doesn't take sheet	no-paper feeds detected on the ADF scanner
Scanner internal jam	paper jams detected in the ADF scanner
07 Error in fax transmission	code 07 errors detected during fax transmission (busy or no fax answer)
01Error in fax transmission	code 01 errors detected during fax transmission (disconnections)
Other errors in fax transmission	any other error codes detected during fax transmission
64 Error in maintenance transmission	code 64 errors detected during remote readout
07 Error in fax reception	code 07 errors detected during fax reception (busy or no fax answer)
Vocal call in fax reception	voice calls detected during fax reception
Other errors in fax reception	any other error codes detected during fax reception
Other errors in IP communication	error codes detected during IP communication (connection loss)
Manual and automatic ON/OFF	times the machine has been switched On/Off (manually and automatically)
Insert toner card	toner card readings
Pixel number (*10000)	pixels the machine has printed (*10000)
Counter TONER	toner remaining in toner units

Before you start, position the Soft-switch 1 bit n°8 to 1.

Attention - UNDOCUMENTED FUNCTIONS ARE RESERVED.

DO NOT TRY AND USE FUNCTIONS THAT ARE NOT DOCUMENTED IN THIS SECTION, THIS MAY LEAD TO THE PERMANENT LOSS OF DATA.

- Printing all parameters (including installation and technical parameters):

▼ * 1

- Switching to forced standby mode regardless of the clock:

▼ * 2

- Switching to software download via a computer link:

▼ * 4

- Save the directory and parameters on I2C card:

Attention - ALL DATA PRESENT ON THE I2C CARD PRIOR TO THE OPERATION WILL BE LOST AFTER OPERATION AND REPLACED BY DIRECTORY AND PARAMETERS FROM THE MACHINE.

▼ * 5

- Restore the directory and parameters from I2C card:

Attention - ALL DIRECTORY CONTACTS AND PARAMETERS STORED IN THE MACHINE PRIOR TO THE OPERATION WILL BE LOST AFTER OPERATION AND REPLACED BY THOSE FROM THE I2C CARD.

▼ * 9

- Launching scanner tuning:

▼ * A

- Displaying miniboot version:

▼ * B

- Displaying the state of the applications, traffic and drivers:

▼ * E

- Display PCL/SG Script fonts checksum:

▼ * F

- Retransmission of faxes to print to rerouting mail:

▼ * G

- Activating the RAM dump:

▼ * K

- Display modem software version:

▼ (*) (M)

- Entering the serial number (with the SOS 1 bit 8 at 1):

▼ (*) (N)

- Displaying the internal counters:

▼ (*) (O)

- Displaying the GDI throughput:

▼ (*) (P)

- Rebooting the machine manually (with the SOS 1 bit 8 at 1):

▼ (*) (R)

- Displaying main software version, cheksum:

▼ (*) (V)

- Displaying the printer firmware version and the 120V/220V configuration:

▼ (*) (W)

Depending on the printer model, the terminal LCD screen displays:

PRINTER FIRMWARE Vx.x 120V	or	PRINTER FIRMWARE Vx.x 220V

- Printing internal counters:

▼ (*) (Y)

- Tuning the level of PDL symbols:

▼ (*) (Z)

1.6 REPLACING THE CPU BOARD

To replace the terminal's CPU board, follow this procedure:

1 - Print the terminal's parameters (user, administrator and technical) and the activity counter values in order to keep a record (▼ **5 6**).
You can also store user parameters and directory entries on a smart card (▼ ***6**) and restore them (▼ ***9**) after the machine is serviced.

2 - Replace the CPU board (see Worksheet D5).

3 - Launch the scanner calibration (▼ **8 0**).

1.7 REPLACING THE SCANNER

To replace the scanner, follow this procedure:

1 - Print the terminal's parameters (user, administrator and technical) and the activity counter values in order to keep a record (▼ **5 6**).
You can also store user parameters and directory entries on a smart card (▼ ***6**) and restore them (▼ ***9**) after the machine is serviced.

2 - Replace the scanner (see Worksheet D7).

3 - Launch the scanner calibration (▼ **8 0**).

2. LASER PRINTER

Refer to the printer's technical manual.

2.1 REPLACING THE PRINTER

To replace the printer, follow this procedure:

1 - Set the On/Off button to Off (position 0).

2 - Disconnect the USB cables and the power supply cable located at the back of the printer.

3 - Disassemble the consumable (it belongs to the client).

4 - Disassemble the printer (see Worksheet D11, page 38).

5 - Reassemble all the elements of the new printer (see Worksheet D11, page 38).

6 - Reassemble the client's consumable.

7 - Reconnect the USB and power supply cable.

8 - Set the On/Off button to On (position I).

Remark(s) : During repairs, it may happen that the remaining capacity indicated by the machine (▼**8 6**) does not correspond to the user's actual toner cartridge capacity. In particular, the user may reach the end of the toner (poor quality of prints) before the remaining capacity displayed by the machine reaches 0%.

2.2 ROLLERS CHARACTERISTICS

	Diameter	**Circonference**
Drum	24 mm	75.4 mm
Fusing roller	29.8 mm	93.6 mm
Fusing press roller	24.5 mm	77 mm
Transfer roller	15 mm	47.1 mm